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***** Welcome to STN International *****

NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 DEC 01 ChemPort single article sales feature unavailable
NEWS 3 JUN 01 CAS REGISTRY Source of Registration (SR) searching
enhanced on STN
NEWS 4 JUN 26 NUTRACEUT and PHARMAML no longer updated
NEWS 5 JUN 29 IMSCOPROFILE now reloaded monthly
NEWS 6 JUN 29 EPFULL adds Simultaneous Left and Right Truncation
(SLART) to AB, MCLM, and TI fields
NEWS 7 JUL 09 PATDPAFULL adds Simultaneous Left and Right
Truncation (SLART) to AB, CLM, MCLM, and TI fields
NEWS 8 JUL 14 USGENE enhances coverage of patent sequence location
(PSL) data
NEWS 9 JUL 27 CA/CAPLUS enhanced with new citing references
NEWS 10 JUL 16 GBFULL adds patent backfile data to 1855
NEWS 11 JUL 21 USGENE adds bibliographic and sequence information
NEWS 12 JUL 28 EPFULL adds first-page images and applicant-cited
references
NEWS 13 JUL 28 INPADOCDB and INPAFAMDB add Russian legal status data
NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.
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***** STN Columbus *****

FILE 'HOME' ENTERED AT 13:19:32 ON 06 AUG 2009

| | | |
|----------------------|------------|---------|
| => file reg | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 0.22 | 0.22 |

FILE 'REGISTRY' ENTERED AT 13:19:51 ON 06 AUG 2009

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STRUCTURE FILE UPDATES: 4 AUG 2009 HIGHEST RN 1172694-04-0
DICTIONARY FILE UPDATES: 4 AUG 2009 HIGHEST RN 1172694-04-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

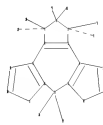
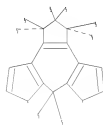
Please note that search-term pricing does apply when
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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
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on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\STNEXP\Queries\10523965.str



chain nodes :
17 18 20 21 22 23 26 27
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 25

```

chain bonds :
1-17 1-18 2-21 2-23 5-20 5-22 25-26 25-27
ring bonds :
1-2 1-5 2-3 3-4 3-6 4-5 4-9 6-7 6-10 7-12 7-25 8-13 8-9 8-25 9-15
10-11 11-12 13-14 14-15
exact/norm bonds :
1-2 1-5 1-17 1-18 2-3 2-21 2-23 3-4 3-6 4-5 4-9 5-20 5-22 6-7 6-10
7-12 7-25 8-13 8-9 8-25 9-15 10-11 11-12 13-14 14-15 25-26 25-27

```

G1:H,CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,X

G2:G1,Ak

G3:Cb,Cy,Hy

Match level :

```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 17:CLASS 18:CLASS 20:CLASS 21:CLASS
22:CLASS 23:CLASS 25:Atom 26:CLASS 27:CLASS

```

L1 STRUCTURE UPLOADED

=> s l1 sss full

FULL SEARCH INITIATED 13:20:12 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 3905 TO ITERATE

100.0% PROCESSED 3905 ITERATIONS

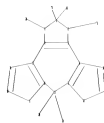
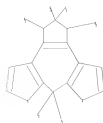
0 ANSWERS

SEARCH TIME: 00.00.01

L2 0 SEA SSS FUL L1

=>

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```

chain nodes :
17 18 20 21 24 25
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 23
chain bonds :
1-17 1-18 2-21 5-20 23-24 23-25
ring bonds :
1-2 1-5 2-3 3-4 3-6 4-5 4-9 6-7 6-10 7-12 7-23 8-13 8-9 8-23 9-15
10-11 11-12 13-14 14-15
exact/norm bonds :
1-2 1-5 1-17 1-18 2-3 2-21 3-4 3-6 4-5 4-9 5-20 6-7 6-10 7-12 7-23
8-13 8-9 8-23 9-15 10-11 11-12 13-14 14-15 23-24 23-25

```

G1:H,CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,X

G2:G1,Ak

G3:Cb,Cy,Hy

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 17:CLASS 18:CLASS 20:CLASS 21:CLASS
23:Atom 24:CLASS 25:CLASS

```

L3 STRUCTURE UPLOADED

=> s 13 sss full

FULL SEARCH INITIATED 13:20:50 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 3905 TO ITERATE

100.0% PROCESSED 3905 ITERATIONS

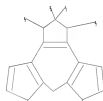
0 ANSWERS

SEARCH TIME: 00.00.01

L4 0 SEA SSS FUL L3

=>

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chain nodes :

17 18 20 21

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 23

chain bonds :

1-17 1-18 2-21 5-20

ring bonds :

1-2 1-5 2-3 3-4 3-6 4-5 4-9 6-7 6-10 7-12 7-23 8-13 8-9 8-23 9-15
10-11 11-12 13-14 14-15

exact/norm bonds :

1-17 1-18 2-21 5-20

exact bonds :

1-2 1-5 2-3 3-4 3-6 4-5 4-9 6-7 6-10 7-12 7-23 8-13 8-9 8-23 9-15
10-11 11-12 13-14 14-15

isolated ring systems :
containing 1 :

G1:H,CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,X

G2:G1,Ak

G3:Cb,Cy,Hy

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 17:CLASS 18:CLASS 20:CLASS 21:CLASS
23:Atom

L5 STRUCTURE UPLOADED

=> s 15 sss full

FULL SEARCH INITIATED 13:21:29 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 13 TO ITERATE

100.0% PROCESSED 13 ITERATIONS

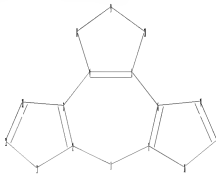
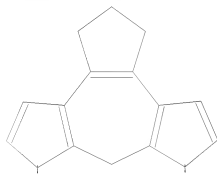
0 ANSWERS

SEARCH TIME: 00.00.01

L6 0 SEA SSS FUL L5

=>

Uploading C:\Program Files\STNEXP\Queries\10523965y.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

ring bonds :

1-2 1-7 2-3 2-11 3-4 3-13 4-5 4-8 5-6 5-10 6-7 6-14 7-16 8-9 9-10

11-12 12-13 14-15 15-16

exact bonds :

1-2 1-7 2-3 2-11 3-4 3-13 4-5 4-8 5-6 5-10 6-7 6-14 7-16 8-9 9-10

11-12 12-13 14-15 15-16

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom

L7 STRUCTURE UPLOADED

=> s l7 sss full

FULL SEARCH INITIATED 13:22:53 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 13 TO ITERATE

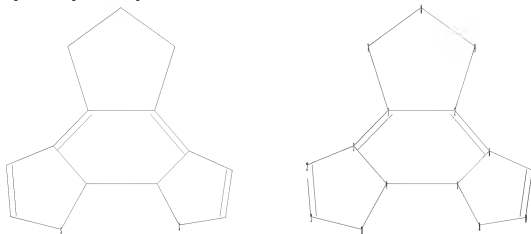
100.0% PROCESSED 13 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L8 0 SEA SSS FUL L7

=>

Uploading C:\Program Files\STNEXP\Queries\10523.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ring bonds :

1-2 1-3 1-7 2-6 2-9 3-4 3-12 4-5 4-10 5-6 5-15 6-13 7-8 8-9 10-11
11-12 13-14 14-15

exact bonds :

1-2 1-3 1-7 2-6 2-9 3-4 3-12 4-5 4-10 5-6 5-15 6-13 7-8 8-9 10-11
11-12 13-14 14-15

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom

L9 STRUCTURE UPLOADED

=> s l9 sss full

FULL SEARCH INITIATED 13:27:27 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1088 TO ITERATE

100.0% PROCESSED 1088 ITERATIONS
SEARCH TIME: 00.00.01

632 ANSWERS

L10 632 SEA SSS FUL L9

| | | |
|----------------------|------------|---------|
| => file capl | | |
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 933.24 | 933.46 |

FILE 'CAPLUS' ENTERED AT 13:27:29 ON 06 AUG 2009
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FILE COVERS 1907 - 6 Aug 2009 VOL 151 ISS 6
 FILE LAST UPDATED: 4 Aug 2009 (20090804/ED)
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

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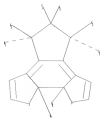
This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAPLUS family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 22.

=> s l10
 L11 353 L10

```
=> file re
'RE' IS AN AMBIGUOUS FILE OR CLUSTER NAME
  REACTION      - Reactions Cluster
  RESEARCH      - Research Cluster
  REGISTRY      - The CAS Registry File of substances
ENTER FILE OR CLUSTER NAME (IGNORE):file reg
'FILE' IS NOT A VALID FILE NAME
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available. If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.
ENTER A FILE NAME OR (IGNORE):end
```

=>
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```

chain nodes :
18 19 21 22 24 25 27 28
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
chain bonds :
4-24 5-25 7-22 7-27 8-18 8-19 9-21 9-28
ring bonds :
1-2 1-3 1-7 2-6 2-9 3-4 3-12 4-5 4-10 5-6 5-15 6-13 7-8 8-9 10-11
11-12 13-14 14-15
exact/norm bonds :
4-24 5-25 7-22 7-27 8-18 8-19 9-21 9-28
exact bonds :
1-2 1-3 1-7 2-6 2-9 3-4 3-12 4-5 4-10 5-6 5-15 6-13 7-8 8-9 10-11
11-12 13-14 14-15
isolated ring systems :
containing 1 :

```

G1:H,CH3,Et,X

G2:Cb,Cy,Hy

G3:G1,Ak

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 18:CLASS 19:CLASS 21:CLASS 22:CLASS
24:CLASS 25:CLASS 27:CLASS 28:CLASS

```

L12 STRUCTURE UPLOADED

=> s l12 sss full

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 13:36:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1088 TO ITERATE

100.0% PROCESSED 1088 ITERATIONS 12 ANSWERS
SEARCH TIME: 00.00.01

L13 12 SEA SSS FUL L12

L14 8 L13

=> d l14 1-8 ibib hitstr

L14 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:796026 CAPLUS

DOCUMENT NUMBER: 151:123405

TITLE: Theoretical Study of Photochromic Compounds. 1. Bond Length Alternation and Absorption Spectra for the Open and Closed Forms of 29 Diarylethene Derivatives
Patel, Pansy D.; Masunov, Artem E.

AUTHOR(S):
CORPORATE SOURCE: NanoScience Technology Center, Department of Chemistry, and Department of Physics, University of Central Florida, Orlando, FL, 32826, USA

SOURCE: Journal of Physical Chemistry A (2009), 113(29), 8409-8414

CODEN: JPCAFH; ISSN: 1089-5639

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 860030-99-5

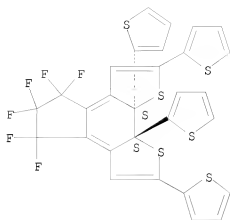
RL: PRP (Properties)

(DTF study on bond length alternation and absorption spectra of the open and closed forms of photochromic diarylethene derivs.)

RN 860030-99-5 CAPLUS

CN 4H-Indeno[5,4-b:6,7-b']dithiophene,
4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-2,8,9a,9b-tetra-2-thienyl-,
(9aR,9bR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:446764 CAPLUS

DOCUMENT NUMBER: 147:188676

TITLE: Bidirectional ring-opening and ring-closing of cationic 1,2-dithienylcyclopentene molecular switches triggered with light or electricity

AUTHOR(S): Gorodetsky, Brian; Branda, Neil R.

CORPORATE SOURCE: Department of Chemistry, Simon Fraser University, Burnaby, BC, V5A 1S6, Can.

SOURCE: Advanced Functional Materials (2007), 17(5), 786-796

CODEN: AFMDC6; ISSN: 1616-301X

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 147:188676

IT 944313-56-8

RL: FMU (Formation, unclassified); PRP (Properties); RCT (Reactant); FORM (Formation, nonpreparative); RACT (Reactant or reagent)

(photochem. and electrocatalytic ring opening; bidirectional ring-opening and ring-closing of cationic 1,2-dithienylcyclopentene mol. switches triggered with light or electricity)

RN 944313-56-8 CAPLUS

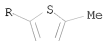
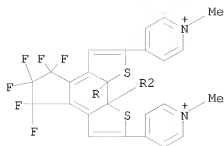
CN Pyridinium, 4,4'-[4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-9a,9b-bis(5-methyl-2-thienyl)-4H-indeno[5,4-b:6,7-b']dithiophene-2,8-diyl]bis[1-methyl-, hexafluorophosphate(1-)] (1:2) (CA INDEX NAME)

CM 1

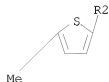
CRN 944313-55-7

CMF C35 H26 F6 N2 S4

PAGE 1-A



PAGE 2-A

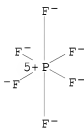


CM 2

CRN 16919-18-9

CMF F6 P

CCI CCS

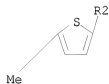
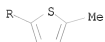
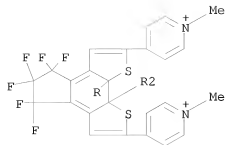


IT 944313-63-7

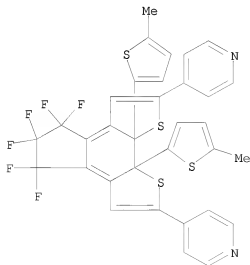
RL: FMU (Formation, unclassified); FEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); FORM (Formation, nonpreparative); PROC (Process); RACT (Reactant or reagent) (ring-closed radical cation; bidirectional ring-opening and ring-closing of cationic 1,2-dithienylcyclopentene mol. switches triggered with light or electricity)

RN 944313-63-7 CAPLUS

CN Pyridinium, 4,4'-[4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-9a,9b-bis(5-methyl-2-thienyl)-4H-indeno[5,4-b:6,7-b']dithiophene-2,8-diyl]bis[1-methyl-, radical ion(1+) (CA INDEX NAME)



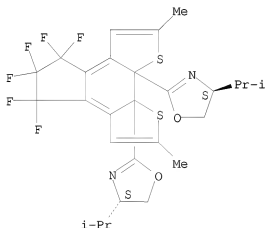
IT 944313-61-5P
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (thermal ring opening; bidirectional ring-opening and ring-closing of
 cationic 1,2-dithienylcyclopentene mol. switches triggered with light
 or electricity)
 RN 944313-61-5 CAPLUS
 CN Pyridine, 4,4'-[4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-9a,9b-bis(5-
 methyl-2-thienyl)-4H-indeno[5,4-b:6,7-b']dithiophene-2,8-diyl]bis- (CA
 INDEX NAME)



OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS
RECORD (11 CITINGS)
REFERENCE COUNT: 89 THERE ARE 89 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:54141 CAPLUS
DOCUMENT NUMBER: 145:438344
TITLE: Photo controlled stereoselective organic synthetic
reaction
AUTHOR(S): Ishitani, Haruro
CORPORATE SOURCE: Tokyo Institute of Technology, Japan
SOURCE: Kagaku (Kyoto, Japan) (2006), 61(1), 64-65
CODEN: KAKYAU; ISSN: 0451-1964
PUBLISHER: Kagaku Dojin
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Japanese
IT 912969-14-3
RL: CAT (Catalyst use); RCT (Reactant); RACT (Reactant or reagent); USES
(Uses)
(photo controlled stereoselectivity in copper-catalyzed asym.
cyclopropanation of styrene by Et diazoacetate)
RN 912969-14-3 CAPLUS
CN Oxazole, 2,2'-(4,4,5,5,6,6-hexafluoro-5,6-dihydro-2,8-dimethyl-4H-
indeno[5,4-b:6,7-b']dithiophene-9a,9b-diyl)bis[4,5-dihydro-4-(1-
methylethyl)-, (4S,4'S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



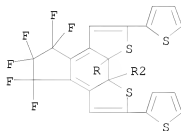
L14 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:559648 CAPLUS
DOCUMENT NUMBER: 143:152970
TITLE: Electrochemical Cyclization/Cycloreversion Reactions
of Diarylethenes
AUTHOR(S): Moriyama, Yoshihisa; Matsuda, Kenji; Tanifuji, Naoki;
Irie, Setsuko; Irie, Masahiro
CORPORATE SOURCE: Department of Chemistry and Biochemistry, Graduate
School of Engineering, JST, Kyushu University and
PRESTO, Fukuoka, Higashi-ku, 812-8581, Japan
SOURCE: Organic Letters (2005), 7(15), 3315-3318
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal

LANGUAGE: English
 OTHER SOURCE(S): CASREACT 143:152970
 IT 860111-71-3

RL: CPS (Chemical process); FMU (Formation, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); FORM (Formation, nonpreparative); PROC (Process); RACT (Reactant or reagent) (electrochem. cyclization/cycloreversion reactions of diarylethenes)

RN 860111-71-3 CAPLUS

CN 4H-Indeno[5,4-b:6,7-b']dithiophene,
 4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-2,8,9a,9b-tetra-2-thienyl-,
 radical ion(1+), (9aR,9bR)-rel- (9CI) (CA INDEX NAME)



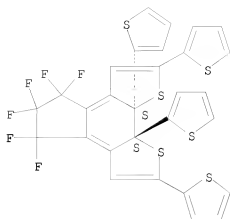
IT 860030-99-5

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent) (electrochem. cyclization/cycloreversion reactions of diarylethenes)

RN 860030-99-5 CAPLUS

CN 4H-Indeno[5,4-b:6,7-b']dithiophene,
 4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-2,8,9a,9b-tetra-2-thienyl-,
 (9aR,9bR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



OS.CITING REF COUNT: 45 THERE ARE 45 CAPLUS RECORDS THAT CITE THIS RECORD (46 CITINGS)

L14 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:143237 CAPLUS

DOCUMENT NUMBER: 140:199926

TITLE: Photochromic and electrochromic compounds and methods of synthesizing and using same

INVENTOR(S): Branda, Neil R.; Peters, Andrea; Wigglesworth, Anthony J.

PATENT ASSIGNEE(S): Simon Fraser University, Can.

SOURCE: PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2004015024 | A1 | 20040219 | WO 2003-CA1216 | 20030811 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| CA 2494920 | A1 | 20040219 | CA 2003-2494920 | 20030811 |
| AU 2003257320 | A1 | 20040225 | AU 2003-257320 | 20030811 |
| JP 2005535692 | T | 20051124 | JP 2004-526557 | 20030811 |
| US 20060240197 | A1 | 20061026 | US 2005-523965 | 20050207 |
| PRIORITY APPLN. INFO.: | | | US 2002-402081P | P 20020809 |
| | | | US 2003-442063P | P 20030124 |
| | | | WO 2003-CA1216 | W 20030811 |

OTHER SOURCE(S): MARPAT 140:199926

IT 496053-41-9P 496053-42-0P 662143-75-1P

662143-76-2P

RL: DEV (Device component use); IMF (Industrial manufacture); PREP

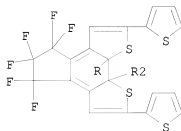
(Preparation); USES (Uses)

(dithienylcyclopentene derivs. convertible between ring-open and

ring-closed isomeric forms and polymers including them and their synthesis and use)

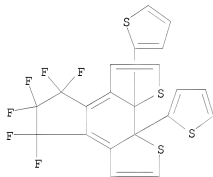
RN 496053-41-9 CAPLUS

CN 4H-Indeno[5,4-b:6,7-b']dithiophene,
4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-2,8,9a,9b-tetra-2-thienyl-
(9CI) (CA INDEX NAME)



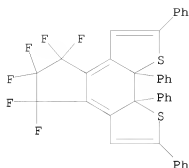
RN 496053-42-0 CAPLUS

CN 4H-Indeno[5,4-b:6,7-b']dithiophene,
4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-9a,9b-di-2-thienyl- (9CI) (CA
INDEX NAME)

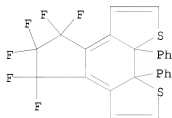


RN 662143-75-1 CAPLUS

CN 4H-Indeno[5,4-b:6,7-b']dithiophene,
4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-2,8,9a,9b-tetraphenyl- (9CI)
(CA INDEX NAME)



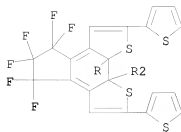
RN 662143-76-2 CAPLUS
 CN 4H-Indeno[5,4-b:6,7-b']dithiophene,
 4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-9a,9b-diphenyl- (9CI) (CA
 INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (2 CITINGS)
 REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2003:151150 CAPLUS
 DOCUMENT NUMBER: 138:346346
 TITLE: Electrochromism in photochromic dithienylcyclopentenenes
 AUTHOR(S): Peters, Andrea; Branda, Neil R.
 CORPORATE SOURCE: Department of Chemistry, Simon Fraser University,
 Burnaby, BC, V5A 1S6, Can.
 SOURCE: Journal of the American Chemical Society (2003),
 125(12), 3404-3405
 CODEN: JACSAT; ISSN: 0002-7863
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English

IT 496053-41-9
 RL: CPS (Chemical process); FMU (Formation, unclassified); PEP (Physical,
 engineering or chemical process); PRP (Properties); RCT (Reactant); FORM
 (Formation, nonpreparative); PROC (Process); RACT (Reactant or reagent)
 (photochem. ring-closing and electrochem. ring opening properties of
 bis(thienyl)cyclopentene derivs.)
 RN 496053-41-9 CAPLUS
 CN 4H-Indeno[5,4-b:6,7-b']dithiophene,
 4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-2,8,9a,9b-tetra-2-thienyl-
 (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 91 THERE ARE 91 CAPLUS RECORDS THAT CITE THIS
RECORD (91 CITINGS)
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:735163 CAPLUS

DOCUMENT NUMBER: 138:160898

TITLE: Regulating π -conjugated pathways using a
photochromic 1,2-dithienylcyclopentene

AUTHOR(S): Peters, Andrea; McDonald, Robert; Branda, Neil R.
CORPORATE SOURCE: Department of Chemistry, Simon Fraser University,
Burnaby, BC, V5A 1S6, Can.

SOURCE: Chemical Communications (Cambridge, United Kingdom)
(2002), (19), 2274-2275

CODEN: CHCOFS; ISSN: 1359-7345

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

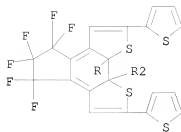
IT 496053-41-9 496053-42-0

RL: CPS (Chemical process); FMU (Formation, unclassified); PEP (Physical,
engineering or chemical process); PRP (Properties); FORM (Formation,
nonpreparative); PROC (Process)

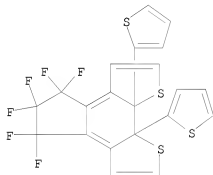
(regulation and reversible re-routing of π -conjugation by
photochromic reactions of bis(terthiophene) derivs. with
diethienylethene backbone)

RN 496053-41-9 CAPLUS

CN 4H-Indeno[5,4-b:6,7-b']dithiophene,
4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-2,8,9a,9b-tetra-2-thienyl-
(9CI) (CA INDEX NAME)



RN 496053-42-0 CAPLUS
 CN 4H-Indeno[5,4-b:6,7-b']dithiophene,
 4,4,5,5,6,6-hexafluoro-5,6,9a,9b-tetrahydro-9a,9b-di-2-thienyl- (9CI) (CA
 INDEX NAME)

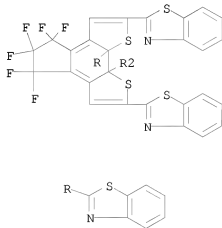


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 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

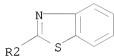
L14 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2002:487244 CAPLUS
 DOCUMENT NUMBER: 137:337515
 TITLE: Photochromic dihetarylethenes. 10. Photochromic
 1,2-bis[2-(benzothiazol-2-yl)-3-thienyl]- and
 1,2-bis[2-(benzothiazol-2-yl)benzothiophen-3-
 yl]ethenes
 AUTHOR(S): Krayushkin, M. M.; Stoyanovich, F. M.; Zolotarskaya,
 O. Yu.; Murav'ev, I. V.; Martynkin, A. Yu.; Uzhinov,
 B. M.
 CORPORATE SOURCE: N. D. Zelinsky Institute of Organic Chemistry, Russian
 Academy of Sciences, Moscow, 119991, Russia

SOURCE: Russian Chemical Bulletin (Translation of Izvestiya Akademii Nauk, Seriya Khimicheskaya) (2001), 50(12), 2420-2423
 CODEN: RCBUEY; ISSN: 1066-5285
 PUBLISHER: Kluwer Academic/Consultants Bureau
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 137:337515
 IT 474098-48-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (photochem. and thermal ring opening; preparation and photochromism of 1,2-di(thien-3-yl)ethenes containing thiophene rings with benzothiazolyl substituents)
 RN 474098-48-1 CAPLUS
 CN Benzothiazole, 2,2',2'',2'''-(4,4,5,5,6,6-hexafluoro-5,6-dihydro-4H-indeno[5,4-b:6,7-b']dithiophene-2,8,9a,9b-tetrayl)tetrakis- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
 REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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enhanced on STN
NEWS 4 JUN 26 NUTRACEUT and PHARMAML no longer updated
NEWS 5 JUN 29 IMSCOPROFILE now reloaded monthly
NEWS 6 JUN 29 EFFULL adds Simultaneous Left and Right Truncation
(SLART) to AB, MCLM, and TI fields
NEWS 7 JUL 09 PATDPAFULL adds Simultaneous Left and Right
Truncation (SLART) to AB, CLM, MCLM, and TI fields
NEWS 8 JUL 14 USGENE enhances coverage of patent sequence location
(PSL) data
NEWS 9 JUL 27 CA/CAPLUS enhanced with new citing references
NEWS 10 JUL 16 GBFULL adds patent backfile data to 1855
NEWS 11 JUL 21 USGENE adds bibliographic and sequence information
NEWS 12 JUL 28 EFFULL adds first-page images and applicant-cited
references
NEWS 13 JUL 28 INPADOCDB and INPAFAMDB add Russian legal status data
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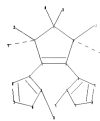
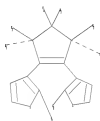
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chain nodes :
18 19 21 22 24 25 27 28
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
chain bonds :
1-3 2-6 4-24 5-25 7-22 7-27 8-18 8-19 9-21 9-28
ring bonds :

1-2 1-7 2-9 3-4 3-12 4-10 5-6 5-15 6-13 7-8 8-9 10-11 11-12 13-14
 14-15
 exact/norm bonds :
 3-4 3-12 4-24 4-10 5-25 5-6 5-15 6-13 7-22 7-27 8-18 8-19 9-21 9-28
 10-11 11-12 13-14 14-15
 exact bonds :
 1-2 1-3 1-7 2-6 2-9 7-8 8-9
 isolated ring systems :
 containing 1 :

G1:H,CH3,Et,X

G2:Cb,Cy,Hy

G3:G1,Ak

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 18:CLASS 19:CLASS 21:CLASS 22:CLASS
 24:CLASS 25:CLASS 27:CLASS 28:CLASS

L1 STRUCTURE UPLOADED

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 FULL SEARCH INITIATED 14:30:08 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 4931 TO ITERATE

100.0% PROCESSED 4931 ITERATIONS 15 ANSWERS
 SEARCH TIME: 00.00.01

L2 15 SEA SSS FUL L1

=> file capl

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| | ENTRY | SESSION |
| FULL ESTIMATED COST | 185.88 | 186.10 |

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 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

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The ALL, BIB, MAX, and STD display formats in the CA/CAPLUS family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 22.

=> s l2

L3 13 L2

=> d l3 1-13 ibib hitstr

L3 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2009:796026 CAPLUS

DOCUMENT NUMBER: 151:123405

TITLE: Theoretical Study of Photochromic Compounds. 1. Bond Length Alternation and Absorption Spectra for the Open and Closed Forms of 29 Diarylethene Derivatives
Patel, Pansy D.; Masunov, Artem E.

AUTHOR(S):

CORPORATE SOURCE: NanoScience Technology Center, Department of Chemistry, and Department of Physics, University of Central Florida, Orlando, FL, 32826, USA

SOURCE: Journal of Physical Chemistry A (2009), 113(29), 8409-8414

CODEN: JPCAFH; ISSN: 1089-5639

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

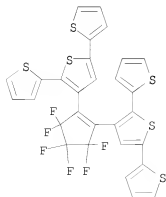
IT 496053-39-5

RL: PRP (Properties)

(DFT study on bond length alternation and absorption spectra of the open and closed forms of photochromic diarylethene derivs.)

RN 496053-39-5 CAPLUS

CN 2,2':5,2''-Terthiophene, 3',3''''-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis- (CA INDEX NAME)



REFERENCE COUNT: 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:564947 CAPLUS

DOCUMENT NUMBER: 146:531243

TITLE: Optical article having anti-theft feature and a system

and method for inhibiting theft of same

INVENTOR(S): Wisnudel, Marc Brian; Topka, Terry Michael; Wu,

Pingfan Peter; Potyrailo, Radislav Alexandrovich;

Gascoyne, David Gilles; Smith, William David; Dhalla,

Adil Minoo; Chauhan, Yogendrasinh Bharatsinh; Pawar,

Rupesh Bhikaji; Singh, Bharat; Maruvada,

Sriramakrishna; Pai-Paranjape, Vandita; Welles,

Kenneth Brakeley; Schottland, Philippe; Olczak, Eugene

George; Menon, Ashok

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 31pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 9

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|-------------|
| US 20070116988 | A1 | 20070524 | US 2005-286279 | 20051121 |
| US 20070116920 | A1 | 20070524 | US 2006-557618 | 20061108 |
| AU 2006318608 | A1 | 20070531 | AU 2006-318608 | 20061120 |
| CA 2629158 | A1 | 20070531 | CA 2006-2629158 | 20061120 |
| WO 2007061974 | A1 | 20070531 | WO 2006-US44943 | 20061120 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | | | | |
| RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| EP 1955328 | A1 | 20080813 | EP 2006-838099 | 20061120 |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | | |
| US 20080012707 | A1 | 20080117 | US 2007-864509 | 20070928 |
| US 20080019258 | A1 | 20080124 | US 2007-864516 | 20070928 |
| PRIORITY APPLN. INFO.: | | | | |
| | | | US 2005-286279 | A2 20051121 |
| | | | US 2006-538451 | A2 20061004 |
| | | | WO 2006-US44943 | W 20061120 |

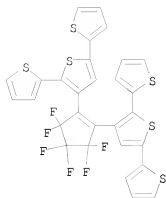
IT 496053-39-5

RL: MOA (Modifier or additive use); USES (Uses)

(optical article having anti-theft feature and a system and method for inhibiting theft of same)

RN 496053-39-5 CAPLUS

CN 2,2':5',2''-Terthiophene, 3',3''''-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis- (CA INDEX NAME)



L3 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:564333 CAPLUS

DOCUMENT NUMBER: 147:19764

TITLE: Optical data carrier having anti-theft feature by activating / de-activating an electro- chromic structure

INVENTOR(S): Wisnudel, Marc Brian; Welles, Kenneth Brakeley; Litz, Kyle Erik

PATENT ASSIGNEE(S): General Electric Company, USA

SOURCE: PCT Int. Appl., 77pp.

CODEN: PIXXD2

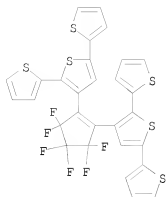
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

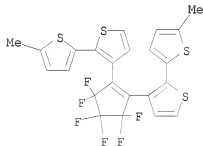
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|------------|
| WO 2007059288 | A1 | 20070524 | WO 2006-US44539 | 20061117 |
| <p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW</p> <p>RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM</p> | | | | |
| US 20070115762 | A1 | 20070524 | US 2005-286280 | 20051121 |
| PRIORITY APPLN. INFO.: | | | US 2005-286280 | A 20051121 |
| IT 496053-39-5 | | | | |
| <p>RL: TEM (Technical or engineered material use); USES (Uses)</p> <p>(optical data carrier having anti-theft feature by activating / de-activating an electro- chromic structure)</p> | | | | |
| RN 496053-39-5 CAPLUS | | | | |
| <p>CN 2,2':5',2''-Terthiophene, 3',3''''-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis- (CA INDEX NAME)</p> | | | | |



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2007:446764 CAPLUS
 DOCUMENT NUMBER: 147:188676
 TITLE: Bidirectional ring-opening and ring-closing of cationic 1,2-dithienylcyclopentene molecular switches triggered with light or electricity
 AUTHOR(S): Gorodetsky, Brian; Branda, Neil R.
 CORPORATE SOURCE: Department of Chemistry, Simon Fraser University, Burnaby, BC, V5A 1S6, Can.
 SOURCE: Advanced Functional Materials (2007), 17(5), 786-796
 CODEN: AFMDC6; ISSN: 1616-301X
 PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 147:188676
 IT 944313-46-6P
 RL: PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (coupling reaction with 4-bromopyridine; bidirectional ring-opening and ring-closing of cationic 1,2-dithienylcyclopentene mol. switches triggered with light or electricity)
 RN 944313-46-6 CAPLUS
 CN 2,2'-Bithiophene, 3-[3,3,4,4,5,5-hexafluoro-2-(5'-methyl[2,2'-bithiophen]-3-yl)-1-cyclopenten-1-yl]-5'-methyl- (CA INDEX NAME)

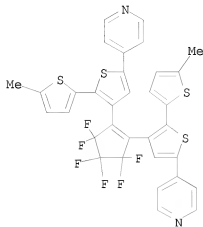


IT 944313-49-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (quaternization and photochem. ring closure; bidirectional ring-opening

and ring-closing of cationic 1,2-dithienylcyclopentene mol. switches triggered with light or electricity)

RN 944313-49-9 CAPLUS

CN Pyridine, 4,4'-[(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis(5'-methyl[2,2'-bithiophene]-3,5-diyl)]bis- (CA INDEX NAME)



IT 944313-52-4P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(target, photochem. and electrochem. ring closure; bidirectional ring-opening and ring-closing of cationic 1,2-dithienylcyclopentene mol. switches triggered with light or electricity)

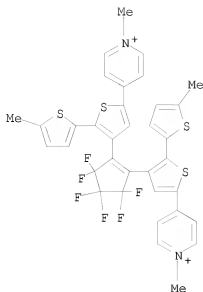
RN 944313-52-4 CAPLUS

CN Pyridinium, 4,4'-[(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis(5'-methyl[2,2'-bithiophene]-3,5-diyl)]bis[1-methyl-, hexafluorophosphate(1-)(1:2)] (CA INDEX NAME)

CM 1

CRN 944313-51-3

CMF C35 H26 F6 N2 S4

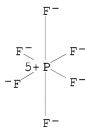


CM 2

CRN 16919-18-9

CMF F6 P

CCI CCS



OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

REFERENCE COUNT: 89 THERE ARE 89 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2009 ACS ON STN

ACCESSION NUMBER: 2006:499931 CAPLUS

DOCUMENT NUMBER: 146:102323

TITLE: Photochromic 1,2-dihetarylethenes with perfluorocyclopentene bridge: Synthesis and spectral and kinetic study

AUTHOR(S): Yarovenko, V. N.; Es'kov, A. A.; Semenov, S. L.; Zavarzin, I. V.; Kadentsev, V. I.; Kalik, M. A.; Krayushkin, M. M.; Strokach, Yu. P.; Valova, T. M.; Golotyuk, Z. O.; Barachevsky, V. A.

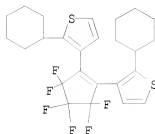
CORPORATE SOURCE: N. D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Moscow, 119991, Russia

SOURCE: Russian Chemical Bulletin (2005), 54(12), 2790-2793

CODEN: RCBUEY; ISSN: 1066-5285

PUBLISHER: Springer

DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 146:102323
 IT 917867-69-7
 RL: PRP (Properties)
 (photochromic 1,2-dihetarylethenes with perfluorocyclopentene bridge)
 RN 917867-69-7 CAPLUS
 CN Thiophene, 3,3'-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis[2-cyclohexyl- (CA INDEX NAME)]



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
 (1 CITINGS)

L3 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:54141 CAPLUS

DOCUMENT NUMBER: 145:438344

TITLE: Photo controlled stereoselective organic synthetic reaction

AUTHOR(S): Ishitani, Haruro

CORPORATE SOURCE: Tokyo Institute of Technology, Japan

SOURCE: Kagaku (Kyoto, Japan) (2006), 61(1), 64-65

CODEN: KAKYAU; ISSN: 0451-1964

PUBLISHER: Kagaku Dojin

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Japanese

IT 912969-12-1

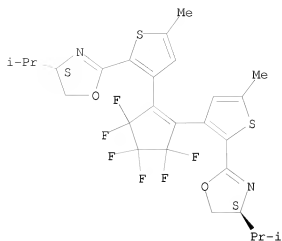
RL: CAT (Catalyst use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)

(photo controlled stereoselectivity in copper-catalyzed asym. cyclopropanation of styrene by Et diazoacetate)

RN 912969-12-1 CAPLUS

CN Oxazole, 2,2'-[(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis(5-methyl-3,2-thiophenediyl)]bis[4,5-dihydro-4-(1-methylethyl)-, (4S,4'S)-(9CI) (CA INDEX NAME)]

Absolute stereochemistry.



L3 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:559648 CAPLUS

DOCUMENT NUMBER: 143:152970

TITLE: Electrochemical Cyclization/Cycloreversion Reactions of Diarylethenes

AUTHOR(S): Moriyama, Yoshihisa; Matsuda, Kenji; Tanifuji, Naoki; Irie, Setsuko; Irie, Masahiro

CORPORATE SOURCE: Department of Chemistry and Biochemistry, Graduate School of Engineering, JST, Kyushu University and PRESTO, Fukuoka, Higashi-ku, 812-8581, Japan

SOURCE: Organic Letters (2005), 7(15), 3315-3318

CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

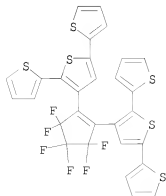
OTHER SOURCE(S): CASREACT 143:152970

IT 860031-05-6

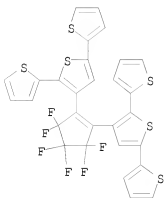
RL: CPS (Chemical process); FMU (Formation, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); FORM (Formation, nonpreparative); PROC (Process); RACT (Reactant or reagent) (electrochem. cyclization/cycloreversion reactions of diarylethenes)

RN 860031-05-6 CAPLUS

CN 2,2':5',2''-Terthiophene, 3',3''''-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis-, radical ion(1+) (9CI) (CA INDEX NAME)



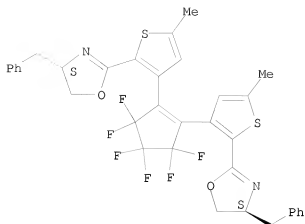
IT 496053-39-5
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
 (electrochem. cyclization/cycloreversion reactions of diarylethenes)
 RN 496053-39-5 CAPLUS
 CN 2,2':5',2''-Terthiophene, 3',3''''-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis- (CA INDEX NAME)



OS.CITING REF COUNT: 45 THERE ARE 45 CAPLUS RECORDS THAT CITE THIS RECORD (46 CITINGS)

L3 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2005:329974 CAPLUS
 DOCUMENT NUMBER: 143:7262
 TITLE: Photoswitching of stereoselectivity in catalysis using a copper dithienylethene complex
 AUTHOR(S): Sud, David; Norsten, Tyler B.; Branda, Neil R.
 CORPORATE SOURCE: Department of Chemistry, Simon Fraser University, Burnaby, BC, V5A 1S6, Can.
 SOURCE: Angewandte Chemie, International Edition (2005), 44(13), 2019-2021
 CODEN: ACIEF5; ISSN: 1433-7851
 PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 143:7262
 IT 852631-43-7
 RL: CAT (Catalyst use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)
 (photoswitching of stereoselectivity in catalysis using copper dithienylethene complex)
 RN 852631-43-7 CAPLUS
 CN Oxazole, 2,2'-1(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis(5-methyl-3,2-thiophenediyl)]bis[4,5-dihydro-4-(phenylmethyl)-, (4S,4'S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS RECORD (19 CITINGS)

L3 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:143237 CAPLUS

DOCUMENT NUMBER: 140:199926

TITLE: Photochromic and electrochromic compounds and methods of synthesizing and using same

INVENTOR(S): Branda, Neil R.; Peters, Andrea; Wigglesworth, Anthony J.

PATENT ASSIGNEE(S): Simon Fraser University, Can.

SOURCE: PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-----------------|------------|
| WO 2004015024 | A1 | 20040219 | WO 2003-CA1216 | 20030811 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| CA 2494920 | A1 | 20040219 | CA 2003-2494920 | 20030811 |
| AU 2003257320 | A1 | 20040225 | AU 2003-257320 | 20030811 |
| JP 2005535692 | T | 20051124 | JP 2004-526557 | 20030811 |
| US 20060240197 | A1 | 20061026 | US 2005-523965 | 20050207 |
| PRIORITY APPLN. INFO.: | | | US 2002-402081P | P 20020809 |
| | | | US 2003-442063P | P 20030124 |
| | | | WO 2003-CA1216 | W 20030811 |

OTHER SOURCE(S): MARPAT 140:199926

IT 496053-40-8P 516492-70-9P 516492-71-0P

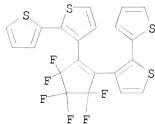
RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)

(dithienylcyclopentene derivs. convertible between ring-open and

ring-closed isomeric forms and polymers including them and their synthesis and use)

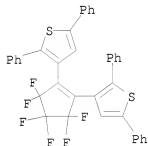
RN 496053-40-8 CAPLUS

CN 2,2'-Bithiophene, 3-(2-[2,2'-bithiophen]-3-yl-3,3,4,4,5,5-hexafluoro-1-cyclopenten-1-yl)- (CA INDEX NAME)



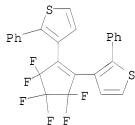
RN 516492-70-9 CAPLUS

CN Thiophene, 3,3'-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis[2,5-diphenyl- (CA INDEX NAME)



RN 516492-71-0 CAPLUS

CN Thiophene, 3,3'-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis[2-phenyl- (CA INDEX NAME)

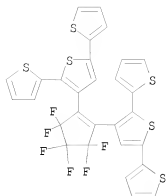


IT 496053-39-5P

RL: DEV (Device component use); IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (dithienylcyclopentene derivs. convertible between ring-open and ring-closed isomeric forms and polymers including them and their synthesis and use)

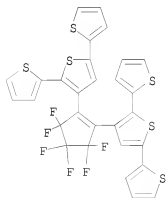
RN 496053-39-5 CAPLUS

CN 2,2':5',2''-Terthiophene, 3',3''''-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:151150 CAPLUS
DOCUMENT NUMBER: 138:346346
TITLE: Electrochromism in photochromic dithienylcyclopentenones
AUTHOR(S): Peters, Andrea; Branda, Neil R.
CORPORATE SOURCE: Department of Chemistry, Simon Fraser University,
Burnaby, BC, V5A 1S6, Can.
SOURCE: Journal of the American Chemical Society (2003),
125(12), 3404-3405
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 496053-39-5
RL: CPS (Chemical process); PEP (Physical, engineering or chemical
process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant
or reagent)
(photochem. ring-closing and electrochem. ring opening properties of
bis(thienyl)cyclopentene derivs.)
RN 496053-39-5 CAPLUS
CN 2,2':5',2''-Terthiophene, 3',3''''-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-
1,2-diyl)bis- (CA INDEX NAME)

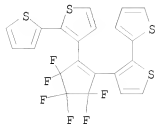


IT 496053-40-8 516492-70-9 516492-71-0

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(photochromic and electrochromic properties of bis(thienyl)cyclopentene derivs.)

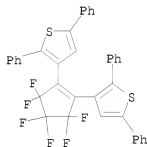
RN 496053-40-8 CAPLUS

CN 2,2'-Bithiophene, 3-(2-[2,2'-bithiophen]-3-yl-3,3,4,4,5,5-hexafluoro-1-cyclopenten-1-yl)- (CA INDEX NAME)



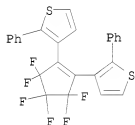
RN 516492-70-9 CAPLUS

CN Thiophene, 3,3'-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis[2,5-diphenyl- (CA INDEX NAME)



RN 516492-71-0 CAPLUS

CN Thiophene, 3,3'-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)bis[2-phenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 91 THERE ARE 91 CAPLUS RECORDS THAT CITE THIS RECORD (91 CITINGS)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

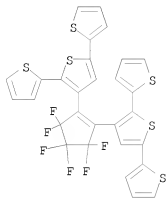
L3 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:735163 CAPLUS

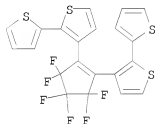
DOCUMENT NUMBER: 138:160898

TITLE: Regulating π -conjugated pathways using a

AUTHOR(S): photochromic 1,2-dithienylcyclopentene
 Peters, Andrea; McDonald, Robert; Branda, Neil R.
 CORPORATE SOURCE: Department of Chemistry, Simon Fraser University,
 Burnaby, BC, V5A 1S6, Can.
 SOURCE: Chemical Communications (Cambridge, United Kingdom)
 (2002), (19), 2274-2275
 CODEN: CHCOFS; ISSN: 1359-7345
 PUBLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 IT 496053-39-5 496053-40-8
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical
 process); PRP (Properties); PROC (Process)
 (regulation and reversible re-routing of π -conjugation by
 photochromic reactions of bis(terthiophene) derivs. with
 diethienylethene backbone)
 RN 496053-39-5 CAPLUS
 CN 2,2':5',2''-Terthiophene, 3',3''''-(3,3,4,4,5,5-hexafluoro-1-cyclopentene-
 1,2-diyl)bis- (CA INDEX NAME)



RN 496053-40-8 CAPLUS
 CN 2,2'-Bithiophene, 3-(2-[2,2'-bithiophen]-3-yl-3,3,4,4,5,5-hexafluoro-1-
 cyclopenten-1-yl)- (CA INDEX NAME)



OS.CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS
 RECORD (17 CITINGS)
 REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2002:487244 CAPLUS
 DOCUMENT NUMBER: 137:337515
 TITLE: Photochromic dihetarylethenes. 10. Photochromic

1,2-bis[2-(benzothiazol-2-yl)-3-thienyl]- and
1,2-bis[2-(benzothiazol-2-yl)benzothiophen-3-
yl]ethenes

AUTHOR(S): Krayushkin, M. M.; Stoyanovich, F. M.; Zolotarskaya,
O. Yu.; Murav'ev, I. V.; Martynkin, A. Yu.; Uzhinov,
B. M.

CORPORATE SOURCE: N. D. Zelinsky Institute of Organic Chemistry, Russian
Academy of Sciences, Moscow, 119991, Russia

SOURCE: Russian Chemical Bulletin (Translation of Izvestiya
Akademii Nauk, Seriya Khimicheskaya) (2001), 50(12),
2420-2423
CODEN: RCBUEY; ISSN: 1066-5285

PUBLISHER: Kluwer Academic/Consultants Bureau

DOCUMENT TYPE: Journal

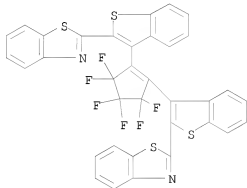
LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:337515

IT 474098-41-4P 474098-43-6P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(photochromism; preparation and photochromism of 1,2-di(thien-3-yl)ethenes
containing thiophene rings with benzothiazolyl substituents)

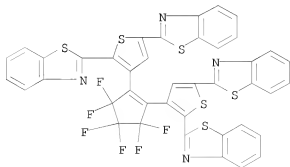
RN 474098-41-4 CAPLUS

CN Benzothiazole, 2,2'-[(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-
diyl)bis(benzo[b]thiophene-3,2-diyl)]bis- (9CI) (CA INDEX NAME)



RN 474098-43-6 CAPLUS

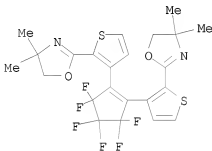
CN Benzothiazole, 2,2',2'',2'''-[(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-
diyl)di-3,2,5-thiophenetriyl]tetrakis- (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD
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REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ACCESSION NUMBER: 1996:516349 CAPLUS
DOCUMENT NUMBER: 125:225107
ORIGINAL REFERENCE NO.: 125:42025a,42028a
TITLE: Switching flow and phase behavior in surfactant systems via photochemical reactions
AUTHOR(S): Nees, D.; Blenkle, M.; Koschade, A.; Wolff, T.; Baglioni, P.; Dei, L.
CORPORATE SOURCE: Physikalische Chem., Universitaet-GH-Siegen, Siegen, D-57068, Germany
SOURCE: Progress in Colloid & Polymer Science (1996), 101(Interfaces, Surfactants and Colloids in Engineering), 75-85
CODEN: PCPSD7; ISSN: 0340-255X
PUBLISHER: Steinkopff
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 182003-81-2P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(phase transition of surfactant systems analyzed by ESR spin probes of photocyclizable dithienylhexafluorocyclopentenes)
RN 182003-81-2 CAPLUS
CN Oxazole, 2,2'-[(3,3,4,4,5,5-hexafluoro-1-cyclopentene-1,2-diyl)di-3,2-thiophenediyl]bis[4,5-dihydro-4,4-dimethyl- (9CI) (CA INDEX NAME)]



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

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